

BACHELOR OF SCIENCE, MAJOR IN HEALTH SCIENCES

Students interested in a 3 + 2 MSAT Option (BS in Health Sciences + MSAT), please, see 2021-2022 Catalog.

Code	Title	Hours
Bachelor of Science, Major in Health Sciences		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication)		6
Component Area II (Mathematics) ¹		3
Component Area III (Life and Physical Science) ²		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) ³		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2403 or BIOL 2401	Human Anatomy & Physiology I ² Human Anatomy	4
BIOL 2404 or BIOL 2402	Human Anatomy & Physiology II ⁶ Human Physiology	4
CHEM 1411 or CHEM 1406	General Chemistry I ² Inorganic & Envir Chemistry	4
KINE 2115	Lifetime Health and Wellness ⁴	1
MATH 1314 or MATH 1410 or MATH 1420	Pre Calculus Algebra ¹ Elementary Functions Calculus I	3
MATH 1370 or MATH 3379 or MATH 1369 or STAT 3379	Intro Biomedical Statistics Statistical Methods in Practice Elementary Statistics Statistical Methods in Practice	3
PSYC 1301	Introduction To Psychology ³	3
PSYC 3374	Development Psychology	3
Major Required Courses: 27 Credit Hours		
HLTH 1360	Fund Hlth Promo & Hlth Careers	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	US Health Care Systems	3
HLTH 3360	Epidemiology	3
HLTH 4393	Prof Prep Health Careers	3
HLTH 4394	Internship Program	3
Elective Block ^{3, 7, 8}		
From the list below, select 41 hours of electives (21 Hours must be 3000 or 4000 level). Students may not count more than 20 credit hours of science and math as elective; the remainder must be from outside science and math.		41
Total Hours		120

¹ Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 is recommended for students pursuing the 3+2 MSAT option.

² Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

³ Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 Bachelor of Science, Major in Health Sciences

4 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

5 Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

6 Select 41 hours of track specific requirements not to exceed 20 combined credit hours of science and math . Must complete 42 credit hours of advanced credit (3000-4000).

7 Pre-nursing and pre-chiropractic students should take BIOL 2420 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=BIOL%202420>) or BIOL 3470 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=BIOL%203470>) Fall of second year.

8 Pre-nursing students should take FACS 2362 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=FACS%202362>) or FACS 1367 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=FACS%201367>).

Code	Title	Hours
Elective Block		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2420	Intro Applied Microbiology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Anlys of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking ⁵	3
COMS 3372	Interpersonal Health Comm	3
COMS 4386	Family Communication	3
COUN 3321	Intro To Helping Relationship	3
COUN 3322	Career Development	3
COUN 3331	Intro To Principles Of Counsln	3
COUN 3332	Therapeutic Play Skills	3
COUN 4379	Wellness Counseling	3
ECHE 3313	Early Childhood Cognition	3
ENGL 3330	Intro to Technical Writing	3
FACS 2362	Nutrition	3
FACS 3369	Family Relationships	3
FACS 4333	Child Dev & Guidance	3
FORS 3420	Hum Osteol Anlys of Hum Bone	4
HLTH 1366	Lifestyle and Wellness	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4365	Health Care Policy	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4394	Internship Program	3

KINE 2330	First Aid & CPR - Am Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology Of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
PHIL 4333	Bioethics	3
PHIL 4371	Death and Dying	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3365	Close Relationships	3
PSYC 3374	Development Psychology	3
SOCI 1301	Principles Of Sociology	3
SOCI 3341	Marriage And The Family	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

BIOL 2402 requires a grade of "C" or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or higher in BIOL 2403.

BIOL 3470 requires the prerequisite of BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1412 .

COMS 4386 requires COMS 2386.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330.

FACS 3369 requires Junior Standing.

FACS 4333 requires Junior Standing or permission of instructor.

HLTH 3350 and HLTH 4387 requires 55 credit hours completed.

HLTH 3360 requires a prerequisite of one of the following: MATH 1369, MATH 1370, MATH 3379, or STAT 3379

HLTH 4380, HLTH 4390, and KINE 3375 requires Junior Standing.

HLTH 4393 requires 12 hours of Health

HLTH 4394 required prerequisite of HLTH 4393 with a C or better.

KINE 3362 requires a prerequisite of BIOL 2401 or BIOL 2403 and 60 credit hours.

MATH 1316 or MATH 1410 or MATH 1420 are prerequisites for PHYS 1101 and PHYS 1301. A grade of "C" or higher is required for courses.

KINE 3362 requires Sophomore Standing.

Students interested in a 3 + 2 MSAT Option (BS in Health Sciences + MSAT), please, see 2021-2022 Catalog.

First Year

Fall	Hours	Spring	Hours
BIOL 2403 or 2401 ¹		4 BIOL 2404 or 2402	4
ENGL 1301 ²		3 CHEM 1411 or 1406 ¹	4
HIST 1301 ³		3 KINE 2115 ⁵	1
HLTH 1360		3 MATH 1370, 1369, 3379, or STAT 3379	3

MATH 1314, 1410, or 1420 ⁴		3 PSYC 1301 ⁶	3
			15
Second Year			
Fall	Hours	Spring	Hours
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) ⁸		3 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) ⁸	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) ⁸		3 HIST 1302 ³	3
ENGL 1302 ²		3 HLTH 2372	3
HLTH 2391		3 HLTH 2383	3
POLS 2305 ⁷		3 POLS 2306 ⁷	3
			15
Third Year			
Fall	Hours	Spring	Hours
Elective Block ^{9, 10, 11}		6 Elective Block ^{9, 10, 11}	9
HLTH 3350		3 HLTH 3360	3
HLTH 3355		3 HLTH 4393 ¹²	3
PSYC 3374		3	
			15
Fourth Year			
Fall	Hours	Spring	Hours
Elective Block ^{9, 10, 11}		15 Elective Block ^{9, 10, 11}	11
		HLTH 4394 ¹²	3
			14

Total Hours: 120

- 1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- 2 Satisfies Core Curriculum requirement for Component Area I (Communications).
- 3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- 5 Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).
- 6 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 8 Either Component Area IV, Component Area V, or Component Area IX can be taken.
- 9 Select 41 hours of track specific requirements not to exceed 20 combined credit hours of science and math . Must complete 42 credit hours of advanced credit (3000-4000).
- 10 Pre-nursing and pre-chiropractic students should take BIOL 2420 or BIOL 3470 Fall of second year.
- 11 Pre-nursing students should take FACS 2362 or FACS 1367.
- 12 Students must earn a grade of "C" or better in HLTH 4393 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=HLTH%204393>) and HLTH 4394 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=HLTH%204394>).

Code	Title	Hours
Elective Block⁹		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2420	Intro Applied Microbiology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3

BIOL 4360	Genetic Anlys of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3372	Interpersonal Health Comm	3
COMS 4386	Family Communication	3
COUN 3321	Intro To Helping Relationship	3
COUN 3322	Career Development	3
COUN 3331	Intro To Principles Of Counsln	3
COUN 3332	Therapeutic Play Skills	3
COUN 4379	Wellness Counseling	3
ECHE 3313	Early Childhood Cognition	3
ENGL 3330	Intro to Technical Writing	3
FACS 2362	Nutrition	3
FACS 3369	Family Relationships	3
FACS 4333	Child Dev & Guidance	3
FORS 3420	Hum Osteol Anlys of Hum Bone	4
HLTH 1366	Lifestyle and Wellness	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4365	Health Care Policy	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4394	Internship Program	3
KINE 2330	First Aid & CPR - Am Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology Of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
PHIL 4333	Bioethics	3
PHIL 4371	Death and Dying	3
PHYS 1302 & PHYS 1101	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory I	4
PHYS 1301 & PHYS 1102	General Phy-Mechanics & Heat and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3365	Close Relationships	3
PSYC 3374	Development Psychology	3

SOCI 1301	Principles Of Sociology	3
SOCI 3341	Marriage And The Family	3
SOCI 3365	Sociology Of Health & Illness	3

- 1 Satisfies Core Curriculum requirement for Component Area I (Communications).
- 2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- 4 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- 5 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- 6 Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).
- 7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 8 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 9 Satisfies three hours of Core Curriculum requirement for Component Area IX (Component Area Option).
- 10 Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process. Students are eligible to begin the MSAT once they have completed a minimum of 95 semester credit hours of the undergraduate degree plan, which must include all core requirements and MSAT prerequisites. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 95 hours of undergraduate work is completed.
- 11 A complete listing of required graduate level courses can be found at Master of Science in Athletic Training (MSAT) ([http://catalog.shsu.edu/archives/2020-2021/graduate-and-professional/college-departments/health-sciences/kinesiology/#programstext](http://catalog.shsu.edu/archives/2020-2021/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)).

Notes

BIOL 2402 requires a grade of "C" or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or higher in BIOL 2403.

BIOL 3470 requires the prerequisite of BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1412 .

COMS 4386 requires COMS 2386.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330.

FACS 3369 requires Junior Standing.

FACS 4333 requires Junior Standing or permission of instructor.

HLTH 3350 and HLTH 4387 requires 55 credit hours completed.

HLTH 3360 requires a prerequisite of one of the following: MATH 1369, MATH 1370, MATH 3379, or STAT 3379

HLTH 4380, HLTH 4390, and KINE 3375 requires Junior Standing.

HLTH 4393 requires 12 hours of Health

HLTH 4394 required prerequisite of HLTH 4393 with a C or better.

KINE 3362 requires a prerequisite of BIOL 2401 or BIOL 2403 and 60 credit hours.

MATH 1316 or MATH 1410 or MATH 1420 are prerequisites for PHYS 1101 and PHYS 1301. A grade of "C" or higher is required for courses.

KINE 3362 requires Sophomore Standing.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Health Sciences is designed to provide graduates with the following marketable skills:

- Recognize and identify specific health and social needs of diverse populations
- Make informed decisions relative to the political, economic, social, legal, and ethical issues that influence the health care profession
- Employ proactive skills and competencies in the areas of preventive health and wellness

- Analyze data to make good programmatic decisions.
- Synthesize the body systems and their relationship to diseases and disorders as they serve as determinants of health